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Human FGF-21 Recombinant Protein

20 µg

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For Research Use Only. Not for Use in Diagnostic Procedures.**MW (kDa):**
19.5**UniProt ID:**
#Q9NSA1**Entrez-Gene Id:**
26291

Background

FGF-21 is a member of the large and diverse fibroblast growth factor (FGF) family of peptide growth factors. FGF-21 functions as a signaling molecule that is involved in many important processes (1,2). It binds to receptors FGFR1c and β Klotho (KLB) to drive protein interactions and formation of signaling complexes at the plasma membrane (3,4). FGF-21 functions as a regulator of glucose uptake in mice and primary human adipocytes (5). When overexpressed in transgenic mice, FGF-21 did not induce mitogenicity, hypoglycemia, or weight gain in diabetic or healthy animals (5).

Endotoxin

Endotoxin levels are less than or equal to 1 EU / 1 µg hFGF-21.

Purity

A greater than or equal to 95% purity was determined by SDS-PAGE.

Source / Purification

Recombinant human FGF-21 was expressed in *E. coli* and is supplied in a lyophilized form.

Bioactivity

The bioactivity of recombinant hFGF-21 was determined in an NIH-3T3 cell proliferation assay. The ED₅₀ of each lot is less than or equal to 500 ng/mL.

Background References

1. Byun, S. et al. (2020) *Nat Commun* 11, 807.
2. BonDurant, L.D. et al. (2017) *Cell Metab* 25, 935-944.e4.
3. Kilkenny, D.M. and Rocheleau, J.V. (2016) *Vitam Horm* 101, 17-58.
4. Ogawa, Y. et al. (2007) *Proc Natl Acad Sci U S A* 104, 7432-7.
5. Kharitonov, A. et al. (2005) *J Clin Invest* 115, 1627-35.

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